GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: June 2, 2004, 16:46:28 ; Search time 131 Seconds
(without alignments)
3.962 Million cell updates/sec

Title: US-09-989-293A-376
Perfect score: 713
Sequence: 1 aatatatcatctatttatca.....tgttgccaaggaaaaaaaaa 713

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 510 seqs, 363935 residues

Total number of hits satisfying chosen parameters: 1020

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 510 summaries

Database : rnpb376.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	713	100.0	713	1	US-09-989-722-376	Sequence 376, App
2	713	100.0	713	1	US-09-989-723-376	Sequence 376, App
3	713	100.0	713	1	US-09-989-279-376	Sequence 376, App
4	713	100.0	713	1	US-09-989-727-376	Sequence 376, App
5	713	100.0	713	1	US-09-989-731-376	Sequence 376, App
6	713	100.0	713	1	US-09-989-732-376	Sequence 376, App
7	713	100.0	713	1	US-09-991-073-376	Sequence 376, App
8	713	100.0	713	1	US-09-990-442-376	Sequence 376, App
9	713	100.0	713	1	US-09-991-163-376	Sequence 376, App
10	713	100.0	713	1	US-09-993-604-376	Sequence 376, App
11	713	100.0	713	1	US-09-990-456-376	Sequence 376, App
12	713	100.0	713	1	US-09-989-721-376	Sequence 376, App
13	713	100.0	713	1	US-09-992-598-376	Sequence 376, App
14	713	100.0	713	1	US-09-989-293A-376	Sequence 376, App
15	713	100.0	713	1	US-09-989-735-376	Sequence 376, App
16	713	100.0	713	1	US-09-990-444-376	Sequence 376, App
17	713	100.0	713	1	US-09-991-181-376	Sequence 376, App
18	713	100.0	713	1	US-09-989-730-376	Sequence 376, App
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23	713	100.0	713	1	US-09-993-667-376	Sequence 376, App
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267	713	100.0	713	1	US-10-147-529-473	Sequence 473, App
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269	713	100.0	713	1	US-10-153-586-473	Sequence 473, App
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ALIGNMENTS

RESULT 1
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; Sequence 376, Application US/09989722
; Patent No. US20020072067A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi,Avi J.
; APPLICANT: Baker,Kevin P.
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; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Grimaldi,J.Christopher
; APPLICANT: Gurney,Austin L.
; APPLICANT: Kljavin,Ivar J.
; APPLICANT: Napier,Mary A.
; APPLICANT: Pan,James
; APPLICANT: Paoni,Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
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; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin

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; NUMBER OF SEQ ID NOS: 532
; SEQ ID NO 376
; LENGTH: 713
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-219-538-376

Query Match 100.0%; Score 713; DB 1; Length 713;
Best Local Similarity 100.0%; Pred. No. 3.4;
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Qy        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600
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Db        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600

Qy        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660

Qy        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
              |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
```

RESULT 506
US-10-147-528-473
; Sequence 473, Application US/10147528
; Publication No. US20030219885A1
; GENERAL INFORMATION:
; APPLICANT: Baker,Kevin P.
; APPLICANT: Beresini,Maureen
; APPLICANT: DeForge,Laura
; APPLICANT: Desnoyers,Luc
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gao,Wei-Qiang
; APPLICANT: Gerritsen,Mary E.
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Sherwood,Steven
; APPLICANT: Smith,Victoria
; APPLICANT: Stewart,Timothy A.
; APPLICANT: Tumas,Daniel
; APPLICANT: Watanabe,Colin K
; APPLICANT: Wood,William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C334
; CURRENT APPLICATION NUMBER: US/10/147,528
; CURRENT FILING DATE: 2002-05-16
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 473
; LENGTH: 713
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-147-528-473

Query Match 100.0%; Score 713; DB 1; Length 713;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 713; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60

Qy         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120

Qy        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180

Qy        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240

Qy        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300

Qy        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360

Qy        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420

Qy        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480

Qy        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540

Qy        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600

Qy        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660

Qy        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
              |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713


RESULT 507
US-10-128-692A-473
; Sequence 473, Application US/10128692A
; Publication No. US20040009547A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Beresini,Maureen
;  APPLICANT:  DeForge,Laura
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gao,Wei-Qiang
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Sherwood,Steven
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Stewart,Timothy A.
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  Watanabe,Colin K
;  APPLICANT:  Wood,William
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3330R1C124
;  CURRENT APPLICATION NUMBER: US/10/128,692A
;  CURRENT FILING DATE:  2002-10-15
;  PRIOR APPLICATION NUMBER: 60/049911
;  PRIOR FILING DATE: 1997-06-18
;  PRIOR APPLICATION NUMBER: 60/056974
;  PRIOR FILING DATE: 1997-08-26
;  PRIOR APPLICATION NUMBER: 60/059113
;  PRIOR FILING DATE: 1997-09-17
;  PRIOR APPLICATION NUMBER: 60/059115
;  PRIOR FILING DATE: 1997-09-17
;  PRIOR APPLICATION NUMBER: 60/059117
;  PRIOR FILING DATE: 1997-09-17
;  PRIOR APPLICATION NUMBER: 60/059122
;  PRIOR FILING DATE: 1997-09-17
;  PRIOR APPLICATION NUMBER: 60/059184
;  PRIOR FILING DATE: 1997-09-17
;  PRIOR APPLICATION NUMBER: 60/059263
;  PRIOR FILING DATE: 1997-09-18
;  PRIOR APPLICATION NUMBER: 60/059352
;  PRIOR FILING DATE: 1997-09-19
;  PRIOR APPLICATION NUMBER: 60/059588
;  PRIOR FILING DATE: 1997-09-19
;  Remaining Prior Application data removed - See File Wrapper or PALM.
;  NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 473
;   LENGTH: 713
;   TYPE: DNA
;   ORGANISM: Homo Sapien
US-10-128-692A-473

  Query Match             100.0%;  Score 713;  DB 1;  Length 713;
  Best Local Similarity   100.0%;  Pred. No. 3.4;
  Matches  713;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60

Qy         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTTCTGTCACTATTATTATT 120
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTTCTGTCACTATTATTATT 120

Qy        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180

Qy        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240

Qy        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300

Qy        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360

Qy        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420

Qy        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480

Qy        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540

Qy        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600

Qy        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660

Qy        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
              |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713


RESULT 508
US-10-140-927-473
; Sequence 473, Application US/10140927
; Publication No. US20040009548A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Beresini,Maureen
;  APPLICANT:  DeForge,Laura
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gao,Wei-Qiang
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Sherwood,Steven
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Stewart,Timothy A.
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  Watanabe,Colin K
;  APPLICANT:  Wood,William
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3330R1C180
;  CURRENT APPLICATION NUMBER: US/10/140,927
;  CURRENT FILING DATE:  2002-05-07
;  Prior Apploication removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 473
;   LENGTH: 713
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; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-140-927-473

Query Match 100.0%; Score 713; DB 1; Length 713;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 713; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60

Qy         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120

Qy        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180

Qy        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240

Qy        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300

Qy        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360

Qy        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420

Qy        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480

Qy        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540

Qy        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600

Qy        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660

Qy        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
              |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
```

RESULT 509
US-10-147-536-473
; Sequence 473, Application US/10147536
; Publication No. US20040077064A1
; GENERAL INFORMATION:
; APPLICANT: Baker,Kevin P.
; APPLICANT: Beresini,Maureen
; APPLICANT: DeForge,Laura
; APPLICANT: Desnoyers,Luc
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gao,Wei-Qiang
; APPLICANT: Gerritsen,Mary E.
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Sherwood,Steven
; APPLICANT: Smith,Victoria
; APPLICANT: Stewart,Timothy A.
; APPLICANT: Tumas,Daniel
; APPLICANT: Watanabe,Colin K
; APPLICANT: Wood,William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C349
; CURRENT APPLICATION NUMBER: US/10/147,536
; CURRENT FILING DATE: 2002-05-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 473
; LENGTH: 713
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-147-536-473

Query Match 100.0%; Score 713; DB 1; Length 713;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 713; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60

Qy         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120

Qy        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180

Qy        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240

Qy        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300

Qy        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360

Qy        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420

Qy        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480

Qy        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540

Qy        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600

Qy        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660

Qy        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
              |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
```

RESULT 510

US-10-270-470-5
; Sequence 5, Application US/10270470
; Publication No. US20030162955A1
; GENERAL INFORMATION:
; APPLICANT: Chalus, Lionel
; APPLICANT: Quan, Ahn B.
; APPLICANT: Bates, Elizabeth Ester Mary
; APPLICANT: Gorman, Daniel M.
; APPLICANT: Saeland, Sem
; APPLICANT: Lebecque, Serge J.E.
; APPLICANT: Phillips, Joseph H.
; TITLE OF INVENTION: ISOLATED MAMMALIAN MEMBRANE PROTEIN GENES; RELATED REAGENTS
; FILE REFERENCE: DX0802QK
; CURRENT APPLICATION NUMBER: US/10/270,470
; CURRENT FILING DATE: 1999-03-16
; PRIOR APPLICATION NUMBER: US 09/270,368
; PRIOR FILING DATE: 1999-03-16
; PRIOR APPLICATION NUMBER: US 60/078,334
; PRIOR FILING DATE: 1998-03-17
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 1018
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (160)..(900)
; OTHER INFORMATION:
US-10-270-470-5

Query Match 19.6%; Score 140; DB 1; Length 1018;
Best Local Similarity 100.0%; Pred. No. 3.6e+02;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy        134 GCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTACTTTCTATCAAGA 193
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 GCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTACTTTCTATCAAGA 420

Qy        194 AATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAGTGTGACTCCTACC 253
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Qy        254 AAAGCTGTCAAAACCACAGG 273
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Db        481 AAAGCTGTCAAAACCACAGG 500
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Search completed: June 2, 2004, 16:49:49
Job time : 184 secs

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: June 2, 2004, 16:18:53 ; Search time 227 Seconds
(without alignments)
3.966 Million cell updates/sec

Title: US-09-989-293A-376
Perfect score: 713
Sequence: 1 aatatatcatctatttatca.....tgttgccaaggaaaaaaaaa 713

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 8 seqs, 631314 residues

Total number of hits satisfying chosen parameters: 16

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 8 summaries

Database : rge376.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	713	100.0	713	1	AR252626	ACCESSION:AR252626
2	713	100.0	713	1	AX055452	ACCESSION:AX055452
3	713	100.0	713	1	AX403489	ACCESSION:AX403489
4	713	100.0	713	1	AX464340	ACCESSION:AX464340
5	713	100.0	713	1	AY358685	ACCESSION:AY358685
c 6	705.6	99.0	165414	1	AC024224	ACCESSION:AC024224
c 7	594.7	83.4	240864	1	AC006510	ACCESSION:AC006510
c 8	211.499	29.7	221471	1	AC138620	ACCESSION:AC138620

ALIGNMENTS

RESULT 1
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LOCUS AR252626 713 bp DNA linear PAT 20-DEC-2002
DEFINITION Sequence 376 from patent US 6478825.
ACCESSION AR252626
VERSION AR252626.1 GI:27300534
KEYWORDS .
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 713)
AUTHORS Winterbottom,J.M., Shimp,L., Boyce,T.M. and Kaes,D.
TITLE Implant, method of making same and use of the implant for the treatment of bone defects
JOURNAL Patent: US 6478825-A 376 12-NOV-2002;
FEATURES Location/Qualifiers
source 1. .713
/organism="unknown"
/mol_type="genomic DNA"

Query Match 100.0%; Score 713; DB 1; Length 713;
Best Local Similarity 100.0%; Pred. No. 4.7;
Matches 713; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540
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RESULT 2
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LOCUS AX055452 713 bp DNA linear PAT 13-JAN-2001
DEFINITION Sequence 82 from Patent WO0073452.
ACCESSION AX055452
VERSION AX055452.1 GI:12228719
KEYWORDS .
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Ashkenazi,A.J., Baker,K.P., Chan,B., Goddard,A., Godowski,P.J., Gurney,A.L., Hebert,C., Henzel,W., Kabakoff,R.C., Shelton,D.L., Tumas,D., Watanabe,C.K. and Wood,W.I.
TITLE Compositions and methods for the treatment of immune related diseases
JOURNAL Patent: WO 0073452-A 82 07-DEC-2000;
Genentech, Inc. (US)
FEATURES Location/Qualifiers

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Qy        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420
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Db        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420

Qy        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480
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Db        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480

Qy        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540
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Db        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713


RESULT 3
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LOCUS       AX403489                713 bp    DNA     linear   PAT 14-JUN-2002
DEFINITION  Sequence 376 from Patent WO0073454.
ACCESSION   AX403489
VERSION     AX403489.1  GI:21436980
KEYWORDS    .
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
  AUTHORS   Ashkenazi,A.J., Baker,K.P., Botstein,D., Desnoyers,L., Eaton,D.,
            Ferrara,N., Gerber,H., Gerritsen,M., Goddard,A., Godowski,P.,
            Grimaldi,C.J., Gurney,A.L., Kljavin,I., Napier,M.A., Pan,J.,
            Paoni,N.F., Roy,M., Stewart,T.A., Tumas,D., Watanabe,C.K.,
            Williams,P., Wood,W.I. and Zhang,Z.
  TITLE     Secreted and transmembrane polypeptides and nucleic acids encoding
            the same
  JOURNAL   Patent: WO 0073454-A 376 07-DEC-2000;
            Genentech Inc. (US)
FEATURES            Location/Qualifiers
     source         1. .713
                    /organism="Homo sapiens"
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  Query Match             100.0%;  Score 713;  DB 1;  Length 713;
  Best Local Similarity   100.0%;  Pred. No. 4.7;
  Matches  713;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Qy         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120
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Qy        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480
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RESULT 4
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LOCUS       AX464340                713 bp    DNA     linear   PAT 16-JUL-2002
DEFINITION  Sequence 473 from Patent WO0140466.
ACCESSION   AX464340
VERSION     AX464340.1  GI:21899186
KEYWORDS    .
SOURCE      Homo sapiens (human)
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  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1
  AUTHORS   Baker,K.P., Beresini,M., Deforge,L., Desnoyers,L., Filvaroff,E.,
            Gao,W.Q., Gerritsen,M.E., Goddard,A., Godowski,P.J., Gurney,A.L.,
            Sherwood,S., Smith,V., Stewart,T.A., Tumas,D., Watanabe,C.K.,
            Wood,W.L. and Zhang,Z.
  TITLE     Secreted and transmembrane polypeptides and nucleic acids encoding
            same
  JOURNAL   Patent: WO 0140466-A 473 07-JUN-2001;
            Genentech Inc. (US)
FEATURES             Location/Qualifiers
     source          1. .713
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  Query Match             100.0%;  Score 713;  DB 1;  Length 713;
  Best Local Similarity   100.0%;  Pred. No. 4.7;
  Matches  713;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Qy        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480
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Db        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713


RESULT 5
AY358685
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LOCUS       AY358685                713 bp    mRNA    linear   PRI 03-OCT-2003
DEFINITION  Homo sapiens clone DNA60627 CLECSF12 (UNQ589) mRNA, complete cds.
ACCESSION   AY358685
VERSION     AY358685.1  GI:37182491
KEYWORDS    FLI_CDNA.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 713)
  AUTHORS   Clark,H.F., Gurney,A.L., Abaya,E., Baker,K., Baldwin,D., Brush,J.,
            Chen,J., Chow,B., Chui,C., Crowley,C., Currell,B., Deuel,B.,
            Dowd,P., Eaton,D., Foster,J., Grimaldi,C., Gu,Q., Hass,P.E.,
            Heldens,S., Huang,A., Kim,H.S., Klimowski,L., Jin,Y., Johnson,S.,
            Lee,J., Lewis,L., Liao,D., Mark,M., Robbie,E., Sanchez,C.,
            Schoenfeld,J., Seshagiri,S., Simmons,L., Singh,J., Smith,V.,
            Stinson,J., Vagts,A., Vandlen,R., Watanabe,C., Wieand,D., Woods,K.,
            Xie,M.H., Yansura,D., Yi,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z.,
            Goddard,A., Wood,W.I. and Godowski,P.
  TITLE     The Secreted Protein Discovery Initiative (SPDI), a Large-Scale
            Effort to Identify Novel Human Secreted and Transmembrane Proteins:
            A Bioinformatics Assessment
  JOURNAL   Genome Res. 13 (10), 2265-2270 (2003)
   PUBMED   12975309
REFERENCE   2  (bases 1 to 713)
  AUTHORS   Clark,H.F.
  TITLE     Direct Submission
  JOURNAL   Submitted (01-AUG-2003) Department of Bioinformatics, Genentech,
            Inc., 1 DNA Way, South San Francisco, CA 94080, USA
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  Query Match             100.0%;  Score 713;  DB 1;  Length 713;
  Best Local Similarity   100.0%;  Pred. No. 4.7;
  Matches  713;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60

Qy         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120

Qy        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180

Qy        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240

Qy        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300

Qy        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540

Qy        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660
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Qy        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
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Db        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
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RESULT 6
AC024224/c

```
LOCUS       AC024224              165414 bp    DNA     linear   PRI 29-MAY-2002
DEFINITION  Homo sapiens 12 BAC RP11-133L14 (Roswell Park Cancer Institute
            Human BAC Library) complete sequence.
ACCESSION   AC024224
VERSION     AC024224.33  GI:21240476
KEYWORDS    HTG.
SOURCE      Homo sapiens (human)
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 165414)
  AUTHORS   Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-osman,F.R., Allen,C.,
            Alsbrooks,S.L., Amaratunge,H.C., Are,J.R., Ayele,M., Banks,T.,
            Barbaria,J., Benton,J., Bimage,K., Blankenburg,K., Bonnin,D.,
            Bouck,J., Bowie,S., Brieva,M., Brown,E., Brown,M., Bryant,N.P.,
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            Davila,M.L., Davis,C., Davy-Carroll,L., Dederich,D.A.,
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            Earnhart,C., Edgar,D., Edwards,C.C., Elhaj,C., Emerling,S.,
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            Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Kucherlapati,R.,
            Weinstock,G. and Gibbs,R.
  TITLE     Direct Submission
  JOURNAL   Unpublished
REFERENCE   2  (bases 1 to 165414)
  AUTHORS   Worley,K.C.
  TITLE     Direct Submission
  JOURNAL   Submitted (28-FEB-2000) Human Genome Sequencing Center, Department
            of Molecular and Human Genetics, Baylor College of Medicine, One
            Baylor Plaza, Houston, TX 77030, USA
REFERENCE   3  (bases 1 to 165414)
  AUTHORS   Worley,K.C.
  TITLE     Direct Submission
  JOURNAL   Submitted (26-MAY-2002) Human Genome Sequencing Center, Department
            of Molecular and Human Genetics, Baylor College of Medicine, One
            Baylor Plaza, Houston, TX 77030, USA
REFERENCE   4  (bases 1 to 165414)
  AUTHORS   Worley,K.C.
  TITLE     Direct Submission
  JOURNAL   Submitted (29-MAY-2002) Human Genome Sequencing Center, Department
            of Molecular and Human Genetics, Baylor College of Medicine, One
            Baylor Plaza, Houston, TX 77030, USA
COMMENT     On May 29, 2002 this sequence version replaced gi:21206012.
            INFORMATION: http://www.hgsc.bcm.tmc.edu/ or email
            gc-help@bcm.tmc.edu

            CLONE LENGTH: This sequence does not necessarily represent the
            entire insert of this clone. Overlapping regions of clones are only
            sequenced and submitted once, so the sequence for the remainder of
            the insert may be found in the record for the adjacent clones.
            Overlapping clones are noted at the beginning and end of the
            Features listing.

            ANNOTATION OF FEATURES:
               STSs are identified using ePCR (Genome Res. 7:541-550) searches
            of a local database that includes entries from dbSTS, GDB, and
            local mapping efforts.
               Repeats are identified using RepeatMasker (A. Smit and P. Green,
            unpublished.) for Human and Mouse sequences.
               Genes and Region of sequence similarity are identified by BLAST
            (Nuc. Acids Res. 25:3389-3402) similarity (expect < 1e-34) to the
            EST and cDNA sequences. Genes demonstrate at least two exons
            flanked by consensus splice sites that maintained sequence
            continuity across the splice junctions. Sequences that are not
            identical matches are annotated as similar.

            SEQUENCING READ COVERAGE:Sequencing is completed to a minimum
            standard of double strand coverage with a minimum of 2 clones and 2
            reads with no ambiguities or 2 chemistries with a minimum of 2
            clones and 3 reads with no ambiguities. If the sequence quality for
            a region does not meet this standard, it will be indicated in the
            annotation as Low Coverage.

            QUALITY OF INDIVIDUAL BASES:This sequence meets stringent quality
            standards - estimated error rate less than 1 per 10,000 bases.
            Reports of lowest quality individual bases and measures of base
            quality are listed below. Description of the metrics can be found
            at URL:
            http://gc.bcm.tmc.edu:8088/quality.info/genbank.annotation.html.

            QUALSTAT-REPORT.
FEATURES                Location/Qualifiers
     source             1. .165414
                        /organism="Homo sapiens"
                        /mol_type="genomic DNA"
                        /db_xref="taxon:9606"
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                /clone="RP11-133L14"
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repeat_region   717. .777
                /rpt_family="(TC)n"
misc_feature    754. .774
                /note="Variable size of homopolymeric repeat in subclones"
                /function="unresolved homopolymeric run"
repeat_region   778. .814
                /rpt_family="(CA)n"
repeat_region   complement(2040. .2134)
                /rpt_family="MIR"
repeat_region   complement(2987. .3137)
                /rpt_family="L1PA3"
repeat_region   complement(4558. .4629)
                /rpt_family="MER5A"
repeat_region   4859. .4941
                /rpt_family="AT_rich"
repeat_region   6420. .6491
                /rpt_family="Charlie2"
repeat_region   complement(6577. .6703)
                /rpt_family="MIR"
repeat_region   6766. .6966
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repeat_region   6980. .7102
                /rpt_family="Charlie2"
repeat_region   7137. .7184
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repeat_region   complement(7215. .7505)
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repeat_region   8877. .8904
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repeat_region   complement(9745. .10034)
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repeat_region   11418. .11839
                /rpt_family="MSTA"
repeat_region   11849. .12009
                /rpt_family="MER5B"
repeat_region   complement(12307. .12483)
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repeat_region   12963. .13065
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repeat_region   13089. .13114
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repeat_region   16811. .17275
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repeat_region   17310. .17655
                /rpt_family="THE1B"
repeat_region   18054. .18101
                /rpt_family="MIR"
repeat_region   18102. .18318
                /rpt_family="CT-rich"
repeat_region   19226. .19319
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repeat_region   19837. .19882
                /rpt_family="(TA)n"
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repeat_region   20550. .21060
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Query Match 99.0%; Score 705.6; DB 1; Length 165414;
Best Local Similarity 99.4%; Pred. No. 0.022;
Matches 708; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     117359 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 117300

Qy        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     117299 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 117240

Qy        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240
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Qy        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     117179 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 117120

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Db     117119 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 117060

Qy        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420
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Qy        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600
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Qy        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660
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Db     116819 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 116760

Qy        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAA 712
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Db     116759 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGAATAAGGAA 116708
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```
RESULT 7
AC006510/c
LOCUS       AC006510              240864 bp    DNA     linear   HTG 14-SEP-2000
DEFINITION  Homo sapiens clone RP11-13C13, RP11-656E20, *** SEQUENCING IN
            PROGRESS ***, 16 unordered pieces.
ACCESSION   AC006510 AC006514
VERSION     AC006510.8  GI:10122018
KEYWORDS    HTG; HTGS_PHASE1.
SOURCE      Homo sapiens (human)
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  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 240864)
  AUTHORS   Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-osman,F.R., Allen,C.,
            Alsbrooks,S.L., Amaratunge,H.C., Are,J.R., Banks,T., Barbaria,J.,
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            Worley,K., Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D.
            and Gibbs,R.
  TITLE     Direct Submission
  JOURNAL   Unpublished
REFERENCE   2  (bases 1 to 240864)
  AUTHORS   Worley,K.C.
  TITLE     Direct Submission
  JOURNAL   Submitted (05-FEB-1999) Molecular and Human Genetics, Baylor
            College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
COMMENT     On Sep 14, 2000 this sequence version replaced gi:10086352.
            -------------- Genome Center
                Center: Baylor College of Medicine
                Center code: BCM
                Web site: http://www.hgsc.bcm.tmc.edu/
                Contact: hgsc-help@bcm.tmc.edu
            -------------- Project Information
                Center project name: J-33
                Center clone name: RP11-13C13, RP11-656E20
            -------------- Summary Statistics
                Sequencing vector: Plasmid; M77789
                Sequencing vector: M13; L08821
                Chemistry: Dye-primer Bodipy: 77% of reads
                Chemistry: Dye-terminator Big Dye: 23% of reads
                Assembly program: Phrap; version 0.990329
                Consensus quality: 71594 bases at least Q40
                Consensus quality: 93014 bases at least Q30
                Consensus quality: 110702 bases at least Q20
                Estimated insert size: 229041; sum-of-contigs estimation
                Estimated insert size: 331000; agarose-fp estimation
                Quality coverage: 0.6x in Q20 bases; agarose-fp estimation
                Quality coverage: 0.9x in Q20 bases; sum-of-contigs estimation
            --------------
            * NOTE: Estimated insert size may differ from sequence length
            *   (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
            * NOTE: This is a 'working draft' sequence. It currently
            * consists of 16 contigs. The true order of the pieces
            * is not known and their order in this sequence record is
            * arbitrary. Gaps between the contigs are represented as
            * runs of N, but the exact sizes of the gaps are unknown.
            * This record will be updated with the finished sequence
            * as soon as it is available and the accession number will
            * be preserved.
            *       1   111085: contig of 111085 bp in length
            *  111086   111185: gap of unknown length
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            *  134883   163654: contig of 28772 bp in length
            *  163655   163754: gap of unknown length
            *  163755   185050: contig of 21296 bp in length
            *  185051   185150: gap of unknown length
            *  185151   194802: contig of 9652 bp in length
            *  194803   194902: gap of unknown length
            *  194903   202527: contig of 7625 bp in length
            *  202528   202627: gap of unknown length
            *  202628   208658: contig of 6031 bp in length
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            *  208759   221785: contig of 13027 bp in length
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            *  221886   230142: contig of 8257 bp in length
            *  230143   230242: gap of unknown length
            *  230243   232625: contig of 2383 bp in length
            *  232626   232725: gap of unknown length
            *  232726   234459: contig of 1734 bp in length
            *  234460   234559: gap of unknown length
            *  234560   235821: contig of 1262 bp in length
            *  235822   235921: gap of unknown length
            *  235922   237146: contig of 1225 bp in length
            *  237147   237246: gap of unknown length
            *  237247   238417: contig of 1171 bp in length
            *  238418   238517: gap of unknown length
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            *  239650   239749: gap of unknown length
            *  239750   240864: contig of 1115 bp in length.
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  Matches  690;  Conservative    0;  Mismatches   18;  Indels    9;  Gaps    8;

Qy          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTG-G  59
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Db     211751 ATTATATCATCTATTTATCATTTATCAATTTTGTATTCTTTTATTCCAATATCATTTGTG 211692

Qy         60 GTTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTAT 119
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Db     211691 GTTTTTGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTAT 211632

Qy        120 TGTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCT 179
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Db     211631 TGTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCT 211572

Qy        180 ACTTTC-TATCAAGAAATAAAGAGAACCACAGT-CAACCCACACAATCATCTTTAGAAGA 237
              |||||| |||||||||||||||||||||||| || |||||||| || ||||||||||||
Db     211571 ACTTTCTTATCAAGAAATAAAGAGAACCACAGTCCACCCCACACATTCTTCTTTAGAAGA 211512

Qy        238 CAGTGTGACTCCTACC-AAAGCTGTCAAAACCA-CAGGCAAGGGCATAGTTAA-AGGACG 294
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Db     211511 CAGTGTGACTCCTACCAAAAGCTGTCAAAACCACCAGGCAAGGGCATAGTTAACAGGACG 211452

Qy        295 GAATCTTGACTC-AAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGA 353
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Qy         354 AAAACACTTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTA 413
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Db      211391 AAAACACTTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTA 211332

Qy         414 GTGTAATGTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTG 473
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      211331 GTGTAATGTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTG 211272

Qy         474 GCTGGACAGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTG 533
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      211271 GCTGGACAGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTG 211212

Qy         534 GCTATGTGCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTC 593
                ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      211211 GCTATGTGCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTC 211152

Qy         594 TCT--CCCCTTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACA 651
                |||  ||| |    ||||||||||||||||||||||||||||||||||||||||||||||
Db      211151 TCTCGCCCTTACACGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACA 211092

Qy         652 TTAGAAAGGAAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAA 708
                |||||||||||||||||||||| |||||||| |||||||||||||||| | ||
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RESULT 8
AC138620/c
LOCUS       AC138620               221471 bp    DNA     linear   HTG 25-FEB-2003
DEFINITION  Mus musculus chromosome UNK clone RP23-250E1, WORKING DRAFT
            SEQUENCE, 13 unordered pieces.
ACCESSION   AC138620
VERSION     AC138620.2  GI:28557995
KEYWORDS    HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
SOURCE      Mus musculus (house mouse)
  ORGANISM  Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE   1  (bases 1 to 221471)
  AUTHORS   McPherson,J.D. and Waterston,R.H.
  TITLE     The sequence of Mus musculus clone
  JOURNAL   Unpublished
REFERENCE   2  (bases 1 to 221471)
  AUTHORS   McPherson,J.D. and Waterston,R.H.
  TITLE     Direct Submission
  JOURNAL   Submitted (12-JAN-2003) Genome Sequencing Center, 4444 Forest Park
            Parkway, St. Louis, MO 63108, USA
REFERENCE   3  (bases 1 to 221471)
  AUTHORS   McPherson,J.D. and Waterston,R.H.
  TITLE     Direct Submission
  JOURNAL   Submitted (25-FEB-2003) Genome Sequencing Center, 4444 Forest Park
            Parkway, St. Louis, MO 63108, USA
COMMENT     On Feb 25, 2003 this sequence version replaced gi:27657609.

            ----------------- Genome Center ----------------------
            Center: Washington University Genome Sequencing Center
            Center code: WUGSC
            Web site:http://genome.wustl.edu/gsc/index.shtml
            Contact: submissions@watson.wustl.edu
            -------------- Project Information -------------------
            Center project name: M_BA0250E01
            ------------------------------------------------------
            -------------- Summary Statistics  -------------
            Sequencing vector: M13; 0%
            Sequencing vector: plasmid; 100%
            Chemistry: Dye-primer ET; 0% of reads
            Chemistry: Dye-terminator Big Dye; 100% of reads
            Assembly program: Phrap; version 0.990319
            Consensus quality: 217739 bases at least Q40
            Consensus quality: 218068 bases at least Q30
            Consensus quality: 218373 bases at least Q20
            Insert size: 193000; agarose-fp
            Insert size: 227132; sum-of-contigs
            Quality coverage: 14.88 in Q20 bases; agarose-fp
            Quality coverage: 12.33 in Q20 bases; sum-of-contigs
            ------------------------------------------------------.
            * NOTE: This is a 'working draft' sequence. It currently
            * consists of 13 contigs. The true order of the pieces
            * is not known and their order in this sequence record is
            * arbitrary. Gaps between the contigs are represented as
            * runs of N, but the exact sizes of the gaps are unknown.
            * This record will be updated with the finished sequence
            * as soon as it is available and the accession number will
            * be preserved.
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            *     1610     3423: contig of 1814 bp in length
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            *    13991    14090: gap of unknown length
            *    14091    20220: contig of 6130 bp in length
            *    20221    20320: gap of unknown length
            *    20321    33395: contig of 13075 bp in length
            *    33396    33495: gap of unknown length
            *    33496    46731: contig of 13236 bp in length
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            *    46832    62518: contig of 15687 bp in length
            *    62519    62618: gap of unknown length
            *    62619    80892: contig of 18274 bp in length
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            *    80993   103312: contig of 22320 bp in length
            *   103313   103412: gap of unknown length
            *   103413   125914: contig of 22502 bp in length
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  Query Match             29.7%;  Score 211.499;  DB 1;  Length 221471;
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Best Local Similarity 63.2%; Pred. No. 1.7;
Matches 456; Conservative 0; Mismatches 215; Indels 51; Gaps 9;

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Db      87112 AACATACAGTTTATTTATCAATAACCATAGGCATCCCCTATATATGTCCATAAAATATGA 87053

Qy         60 GTTTTGGGATTTTAATTTTCAAACACAGCAGAATGACAT--TTTTTCTGTCACTATTATT 117
              ||  ||| |||| ||||| |||||||||||||||||| |  |||||||||||||||  |
Db      87052 GTGCTGGCATTTCCATTTTTAAACACAGCAGAATGACTTTCTTTTTCTGTCACTATTGCT 86993

Qy        118 ATTGTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGG 177
              ||  ||   | ||||||  ||||| ||  |||||||| || ||  ||  |||||| |
Db      86992 GTTCGTGACGTATGAAGCATTTTGGTGACACAATTCAGGGAGAAATCCAGAGGAGAAAGA 86933

Qy        178 CTACTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGA 237
              | |||| ||||||||||||||||||||||||   | |||||| |||||||||||| ||
Db      86932 CAACTTCCTATCAAGAAATAAAGAGAACCACA---AGCCCACAGAATCATCTTTAGATGA 86876

Qy        238 CAGTGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGA----- 292
              |  ||| ||||  |||| ||   | |||| ||||||||||||      ||||||
Db      86875 GAAGGTGGCTCCCTCCAAGGCATCCCAAACTACAGGCAAGGGCAGCACGAAAGGAGCAAT 86816

Qy        293 CGGAATCTTGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAG 352
              |||  |  || || ||||| | | ||| |||||||| ||||||||  |||
Db      86815 GGGATCCCGGATTCCAGAGGTTCATTTCCTGGTGCTGAGGCCTGGGGTGGGG-------- 86764

Qy        353 AAAAACACTTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTT 412
              || |   ||| ||  | | |  || |||| |||||||  | || ||  || ||| ||||
Db      86763 -AATATGTTTACATCTACTAACAGTGAATTCAAGGCAAGCAGACCTAACAGAATTCCCTT 86705

Qy        413 AGTGTAATGTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTT 472
              ||  |||  || ||||| || | |      ||| |||  || | || | | |    |
Db      86704 AGCATAACATA-CCCTGCCAGACAGCTGGTAAAGTGGCATCACAAATCCACAGCTC---- 86650

Qy        473 GGCTGGACAGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGAT-TTATCAC 531
                                       || | | | |   | | ||||||| | | ||||| |
Db      86649 ----------------------TTTCACTTACTAAAAGGAGCAGTAACAGCTCTTATCTC 86612

Qy        532 TGGCTATGTGCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGT 591
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Db      86611 TGGCTGTGTGCTGAAATCTATGAGACATGATAGAATTTGATGCAAACGAAGGGGTAGTGT 86552

Qy        592 TCTCTCCCCTTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACA 651
              ||  |  |||||  ||| ||| ||||| |  | |||   |||||||| || | |||  |
Db      86551 TCAGTGTCCTTATGGAACTGATATTTTTACAGTGAT---GTTAGAATAAGATAGATGTGA 86495

Qy        652 TTAGAAAGGAAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAA 711
                || | || |        | |   |||| | |      ||   ||  || |  || ||
Db      86494 GGGAAAGGAAATATAAGGGAGAAATGAGGAAGGGACACTGAAGACTGTAAATGCTAATAA 86435

Qy        712 AA 713
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Db      86434 TA 86433
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Search completed: June 2, 2004, 16:22:42
Job time : 229 secs

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: June 2, 2004, 16:29:06 ; Search time 54 Seconds
(without alignments)
4.019 Million cell updates/sec

Title: US-09-989-293A-376
Perfect score: 713
Sequence: 1 aatatatcatctatttatca.....tgttgccaaggaaaaaaaaa 713

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 207 seqs, 152209 residues

Total number of hits satisfying chosen parameters: 414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 207 summaries

Database : rng376.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	713	100.0	713	1	AAZ65094	Membrane-bound pro
2	713	100.0	713	1	AAC58634	Human PRO1159 prot
3	713	100.0	713	1	AAS21480	Human cDNA sequenc
4	713	100.0	713	1	AAF44240	Human PRO1159 (UNQ
5	713	100.0	713	1	ABX77952	Human PRO polynucl
6	713	100.0	713	1	ABX80364	Novel human secret
7	713	100.0	713	1	ACA69270	Human cDNA encodin
8	713	100.0	713	1	ACD24089	Novel human secret
9	713	100.0	713	1	ABX90341	Human secreted/tra
10	713	100.0	713	1	ABX64187	cDNA encoding huma
11	713	100.0	713	1	ACA67230	cDNA encoding huma
12	713	100.0	713	1	ACA64409	Novel human secret
13	713	100.0	713	1	ACA03839	cDNA encoding huma
14	713	100.0	713	1	ABX89377	DNA encoding novel
15	713	100.0	713	1	ABX80868	Human secreted/tra
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20	713	100.0	713	1	ABX81251	Novel human secret
21	713	100.0	713	1	ACA04260	Human cDNA encodin
22	713	100.0	713	1	ACA93067	Novel human secret
23	713	100.0	713	1	ABX17151	Human PRO polynucl
24	713	100.0	713	1	ACA68006	Novel human secret
25	713	100.0	713	1	ACA88455	Human secreted and
26	713	100.0	713	1	ACD81962	cDNA encoding huma
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29	713	100.0	713	1	ADA19073	Human PRO polynucl
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31	713	100.0	713	1	ADB19481	Novel human secret
32	713	100.0	713	1	ADB28022	cDNA encoding huma
33	713	100.0	713	1	ADA86501	Novel human secret
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36	713	100.0	713	1	ADA47851	Human PRO polynucl
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42	713	100.0	713	1	ADA17904	cDNA encoding huma
43	713	100.0	713	1	ADA97161	Human PRO polynucl
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45	713	100.0	713	1	ADA87604	Novel human secret
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57	713	100.0	713	1	ADB24832	Human PRO polynucl
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71	713	100.0	713	1	ADA92938	Human cDNA encodin
72	713	100.0	713	1	ADA61133	Homo sapiens. Nov
73	713	100.0	713	1	ADB24280	Human PRO polynucl
74	713	100.0	713	1	ADA96609	Human PRO polynucl
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76	713	100.0	713	1	ADA96057	Human PRO polynucl
77	713	100.0	713	1	ADB26366	cDNA encoding huma
78	713	100.0	713	1	ADB21851	Novel human secret
79	713	100.0	713	1	ADA77630	Human PRO polynucl
80	713	100.0	713	1	ADB18370	cDNA encoding huma
81	713	100.0	713	1	ADA87053	Novel human secret
82	713	100.0	713	1	ADA88156	Novel human secret
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87	713	100.0	713	1	ADA77078	Human PRO polynucl
88	713	100.0	713	1	ADA22499	Human cDNA encodin
89	713	100.0	713	1	ADA88708	Novel human secret
90	713	100.0	713	1	ADA97713	Human PRO polynucl
91	713	100.0	713	1	ADB27470	cDNA encoding huma
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94	713	100.0	713	1	ADA06665	Human secreted/tra
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118	713	100.0	713	1	ADC55220	Human PRO polynucl
119	713	100.0	713	1	ADC12087	Human cDNA encodin
120	713	100.0	713	1	ADC56509	Human PRO polynucl
121	713	100.0	713	1	ADC07564	Human cDNA encodin
122	713	100.0	713	1	ADC11554	Human cDNA encodin
123	713	100.0	713	1	ADC50514	Novel human secret
124	713	100.0	713	1	ADC72061	Novel human secret
125	713	100.0	713	1	ADC60040	Novel human secret
126	713	100.0	713	1	ADC53047	Novel human secret
127	713	100.0	713	1	ADC57401	Novel human secret
128	713	100.0	713	1	ADC60592	Novel human secret
129	713	100.0	713	1	ADC51067	Novel human secret
130	713	100.0	713	1	ADC65594	Human PRO polynucl
131	713	100.0	713	1	ADC54692	Novel human secret
132	713	100.0	713	1	ADC53653	Novel human secret
133	713	100.0	713	1	ADC59176	Novel human secret
134	713	100.0	713	1	ADC56054	Novel human secret
135	713	100.0	713	1	ADC58624	Novel human secret
136	713	100.0	713	1	ADC14676	Novel human secret
137	713	100.0	713	1	ADD08208	Novel human secret
138	713	100.0	713	1	ADD03298	Novel human secret
139	713	100.0	713	1	ADC90290	Novel human secret
140	713	100.0	713	1	ADC82033	Human PRO polynucl
141	713	100.0	713	1	ADC69709	cDNA encoding huma
142	713	100.0	713	1	ADC48598	Human PRO polynucl
143	713	100.0	713	1	ADD10127	Human PRO polynucl
144	713	100.0	713	1	ADD07675	Novel human secret
145	713	100.0	713	1	ADD04702	Novel human secret
146	713	100.0	713	1	ADC82566	Human PRO polynucl
147	713	100.0	713	1	ADC80658	Novel human secret
148	713	100.0	713	1	ADD11165	Human PRO polynucl
149	713	100.0	713	1	ADC48046	Human PRO polynucl
150	713	100.0	713	1	ADD08746	Novel human secret
151	713	100.0	713	1	ADC80106	Novel human secret
152	713	100.0	713	1	ADD06995	Novel human secret
153	713	100.0	713	1	ADD09575	Human PRO polynucl
154	713	100.0	713	1	ADC83242	Human PRO polynucl
155	713	100.0	713	1	ADD41288	Novel human secret
156	713	100.0	713	1	ADD52427	cDNA encoding huma
157	713	100.0	713	1	ADD53167	cDNA encoding huma
158	713	100.0	713	1	ADD53719	Novel human secret
159	713	100.0	713	1	ADD55349	Human PRO polynucl
160	713	100.0	713	1	ADD56307	Human PRO polynucl
161	713	100.0	713	1	ADD51875	cDNA encoding huma
162	713	100.0	713	1	ADD02674	Human PRO polynucl
163	713	100.0	713	1	ADD02108	Human PRO polynucl
164	713	100.0	713	1	ADD54290	Novel human secret
165	713	100.0	713	1	ADD54745	Human PRO polynucl
166	713	100.0	713	1	ADD92607	Human PRO polynucl
167	713	100.0	713	1	ADD91503	Human PRO polynucl
168	713	100.0	713	1	ADE04117	Human PRO polynucl
169	713	100.0	713	1	ADE26899	Novel human secret
170	713	100.0	713	1	ADE32414	Novel human secret
171	713	100.0	713	1	ADE22346	cDNA encoding huma
172	713	100.0	713	1	ADD79570	cDNA encoding huma
173	713	100.0	713	1	ADE42106	Human PRO polynucl
174	713	100.0	713	1	ADE17923	Human PRO polynucl
175	713	100.0	713	1	ADD92055	Human PRO polynucl
176	713	100.0	713	1	ADE33518	Novel human secret
177	713	100.0	713	1	ADE34070	Novel human secret
178	713	100.0	713	1	ADD80122	cDNA encoding huma
179	713	100.0	713	1	ADD93159	Human PRO polynucl
180	713	100.0	713	1	ADE19579	Human PRO polynucl
181	713	100.0	713	1	ADE19027	Human PRO polynucl
182	713	100.0	713	1	ADE43223	Human PRO polynucl
183	713	100.0	713	1	ADD96012	Human PRO polynucl
184	713	100.0	713	1	ADE22898	cDNA encoding huma
185	713	100.0	713	1	ADD79016	cDNA encoding huma
186	713	100.0	713	1	ADE26366	Novel human secret
187	713	100.0	713	1	ADE32966	Novel human secret
188	713	100.0	713	1	ADE42658	Human PRO polynucl
189	713	100.0	713	1	ADD80674	cDNA encoding huma
190	713	100.0	713	1	ADD89702	Human PRO polynucl
191	713	100.0	713	1	ADE40986	Human PRO polynucl
192	713	100.0	713	1	ADE04785	Human PRO polynucl
193	713	100.0	713	1	ADC81210	Novel human secret
194	713	100.0	713	1	ADD76658	Human PRO polynucl
195	713	100.0	713	1	ADD88022	Human PRO polynucl
196	713	100.0	713	1	ADD86426	Human PRO polynucl
197	713	100.0	713	1	ADE75874	Human PRO polynucl
198	713	100.0	713	1	ADE23450	cDNA encoding huma
199	713	100.0	713	1	ADE24002	cDNA encoding huma
200	713	100.0	713	1	ADE24645	cDNA encoding huma
201	713	100.0	713	1	ADD87470	Human PRO polynucl
202	713	100.0	713	1	ADE89336	Human PRO polynucl
203	713	100.0	713	1	ADE18475	Human PRO polynucl
204	713	100.0	713	1	ADE88784	Human PRO polynucl
c 205	705.6	99.0	5709	1	AAK81282	Human immune/haema
206	701.5	98.4	712	1	AAC91481	Human PRO1159 cDNA
c 207	332.8	46.7	336	1	AAK81284	Human immune/haema

ALIGNMENTS

RESULT 1
AAZ65094
ID AAZ65094 standard; cDNA; 713 BP.
XX
AC AAZ65094;
XX
DT 05-APR-2000 (first entry)
XX
DE Membrane-bound protein PRO1159 encoding cDNA.
XX
KW Membrane-bound polypeptide; PRO polypeptide; LDL receptor; TIE ligand;
KW pharmaceutical; receptor immunoadhesin; gene mapping; ss.
XX
OS Homo sapiens.
XX
PN WO9963088-A2.
XX
PD 09-DEC-1999.
XX
PF 02-JUN-1999; 99WO-US012252.
XX
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088326P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088722P.
PR 10-JUN-1998; 98US-0088730P.
PR 10-JUN-1998; 98US-0088734P.

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Qy          61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120
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Db          61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120

Qy         121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180
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Db         121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180

Qy         181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240
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Qy         301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360
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Db         301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360

Qy         361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420
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Db         361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420

Qy         421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480
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Db         421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480

Qy         481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540
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Db         481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540

Qy         541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600
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               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660

Qy         661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAAA 713
               |||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAAA 713
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RESULT 202
ADE89336
ID ADE89336 standard; cDNA; 713 BP.
XX
AC ADE89336;
XX
DT 29-JAN-2004 (first entry)
XX
DE Human PRO polynucleotide #237.
XX
KW Human; gene; ss; PRO; secreted polypeptide; transmembrane polypeptide;
KW tumour necrosis factor-alpha; TNF-alpha; chondrocyte cell; tumour;
KW cancer; adrenal; lung; colon; breast; prostate; rectum; kidney; cervix;
KW liver; microvascular endothelial cell; glucose; FFA;
KW skeletal muscle cell; adipocyte cell; pericyte cell;
KW inner ear utricular supporting cell; T-lymphocyte cell;
KW endothelial cell tube formation; bone disorder; cartilage disorder;
KW sports injury; proteoglycan; articular cartilage defect; osteoarthritis;
KW rheumatoid arthritis; haemoglobin-associated disorder thalassaemia;
KW immune system cell infiltration.
XX
OS Homo sapiens.
XX
PN US2003199062-A1.
XX
PD 23-OCT-2003.
XX
PF 17-APR-2002; 2002US-00124823.
XX
PR 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 10-MAR-1999; 2000WO-US006319.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.

PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2004-041360/04.
DR P-PSDB; ADE89337.
XX
PT Novel isolated PRO polypeptide useful for treating diabetes, hyper- or
PT hypo-insulinemia, sports injuries, arthritis, obesity, stroke, heart
PT attack, various coagulation disorders, tumors.
XX
PS Claim 2; SEQ ID NO 473; 638pp; English.
XX
CC The invention relates to isolated human PRO polypeptides (secreted and
CC transmembrane polypeptides) and the polynucleotides encoding them. The
CC invention also relates to an antibody which specifically binds to a PRO
CC polypeptide, a method for stimulating the release of tumour necrosis
CC factor-alpha (TNF-alpha) from human blood, a method for stimulating the
CC proliferation or differentiation of chondrocyte cells and a method for
CC detecting the presence of a tumour in a mammal (e.g. adrenal, lung,
CC colon, breast, prostate, rectal, kidney, cervical and liver tumours). The
CC polynucleotides are useful in molecular biology, including uses as
CC hybridisation probes, in chromosome and gene mapping, in generating
CC antisense RNA and DNA and in gene therapy. The polynucleotides may also
CC be used in preparing PRO polypeptides by recombinant techniques and in
CC generating either transgenic animals or knock-out animals which are
CC useful in the development and screening of therapeutically useful
CC reagents. The PRO polypeptides or antibodies are used in preparing a
CC medicament for treating a condition responsive to the polypeptides or
CC antibodies, such as tumours, for stimulating and inhibiting proliferation
CC of human microvascular endothelial cells, for modulating the uptake of
CC glucose or FFA by skeletal muscle cells or adipocyte cells, for
CC stimulating differentiation of adipocyte cells, for stimulating
CC proliferation of or gene expression in pericyte cells, for stimulating
CC the proliferation of inner ear utricular supporting cells or T-lymphocyte
CC cells, for inducing endothelial cell tube formation and for treating
CC various bone and/or cartilage disorders such as sports injuries and
CC arthritis. PRO polypeptides which stimulate the release of proteoglycans
CC from cartilage are useful for treating sports-related joint problems,
CC articular cartilage defects, osteoarthritis and rheumatoid arthritis. PRO
CC polypeptides are also useful for treating various mammalian haemoglobin-
CC associated disorders such as various thalassaemias and conditions which
CC may benefit from enhanced local immune system cell infiltration. This
CC sequence represents a human PRO polynucleotide of the invention. Note:
CC The sequence data for this patent is also available in electronic format
CC from USPTO at seqdata.uspto.gov/sequence.html.
XX
SQ Sequence 713 BP; 262 A; 105 C; 134 G; 212 T; 0 U; 0 Other;

Query Match 100.0%; Score 713; DB 1; Length 713;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 713; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60
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Db          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60

Qy         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120

Qy        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180
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Db        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180

Qy        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240
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Db        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240

Qy        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300
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Db        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300

Qy        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360
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Db        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360

Qy        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420
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Db        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420

Qy        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480
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Qy        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600
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Qy        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660
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Qy        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
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Db        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
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RESULT 203
ADE18475
ID ADE18475 standard; cDNA; 713 BP.
XX
AC ADE18475;
XX
DT 29-JAN-2004 (first entry)
XX
DE Human PRO polynucleotide #237.
XX
KW Human; gene; ss; PRO; secreted polypeptide; transmembrane polypeptide;
KW tumour necrosis factor-alpha; TNF-alpha; chondrocyte cell; tumour;
KW cancer; adrenal; lung; colon; breast; prostate; rectum; kidney; cervix;

KW liver; microvascular endothelial cell; glucose; FFA;
KW skeletal muscle cell; adipocyte cell; pericyte cell;
KW inner ear utricular supporting cell; T-lymphocyte cell;
KW endothelial cell tube formation; bone disorder; cartilage disorder;
KW sports injury; proteoglycan; articular cartilage defect; osteoarthritis;
KW rheumatoid arthritis; haemoglobin-associated disorder thalassaemia;
KW immune system cell infiltration.
XX
OS Homo sapiens.
XX
PN US2003194794-A1.
XX
PD 16-OCT-2003.
XX
PF 17-APR-2002; 2002US-00125805.
XX
PR 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 14-SEP-1998; 98WO-US019094.
PR 14-SEP-1998; 98WO-US019177.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.
PR 20-NOV-1998; 98WO-US024855.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 10-MAR-1999; 2000WO-US006319.
PR 20-APR-1999; 99WO-US008615.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 22-DEC-1999; 99WO-US030720.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2004-021079/02.
DR P-PSDB; ADE18476.
XX
PT New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO1114 or
PT PRO4978, for use in molecular biology, chromosome and gene mapping, in
PT generating antisense RNA and DNA, and in gene therapy.
XX
PS Claim 2; SEQ ID NO 473; 638pp; English.
XX
CC The invention relates to isolated human PRO polypeptides (secreted and
CC transmembrane polypeptides) and the polynucleotides encoding them. The
CC invention also relates to an antibody which specifically binds to a PRO
CC polypeptide, a method for stimulating the release of tumour necrosis
CC factor-alpha (TNF-alpha) from human blood, a method for stimulating the
CC proliferation or differentiation of chondrocyte cells and a method for
CC detecting the presence of a tumour in a mammal (e.g. adrenal, lung,
CC colon, breast, prostate, rectal, kidney, cervical and liver tumours). The
CC polynucleotides are useful in molecular biology, including uses as
CC hybridisation probes, in chromosome and gene mapping, in generating
CC antisense RNA and DNA and in gene therapy. The polynucleotides may also
CC be used in preparing PRO polypeptides by recombinant techniques and in
CC generating either transgenic animals or knock-out animals which are
CC useful in the development and screening of therapeutically useful
CC reagents. The PRO polypeptides or antibodies are used in preparing a

```
CC   medicament for treating a condition responsive to the polypeptides or
CC   antibodies, such as tumours, for stimulating and inhibiting proliferation
CC   of human microvascular endothelial cells, for modulating the uptake of
CC   glucose or FFA by skeletal muscle cells or adipocyte cells, for
CC   stimulating differentiation of adipocyte cells, for stimulating
CC   proliferation of or gene expression in pericyte cells, for stimulating
CC   the proliferation of inner ear utricular supporting cells or T-lymphocyte
CC   cells, for inducing endothelial cell tube formation and for treating
CC   various bone and/or cartilage disorders such as sports injuries and
CC   arthritis. PRO polypeptides which stimulate the release of proteoglycans
CC   from cartilage are useful for treating sports-related joint problems,
CC   articular cartilage defects, osteoarthritis and rheumatoid arthritis. PRO
CC   polypeptides are also useful for treating various mammalian haemoglobin-
CC   associated disorders such as various thalassaemias and conditions which
CC   may benefit from enhanced local immune system cell infiltration. This
CC   sequence represents a human PRO polynucleotide of the invention. Note:
CC   The sequence data for this patent is also available in electronic format
CC   from USPTO at seqdata.uspto.gov/sequence.html.
XX
SQ   Sequence 713 BP; 262 A; 105 C; 134 G; 212 T; 0 U; 0 Other;

  Query Match           100.0%;  Score 713;  DB 1;  Length 713;
  Best Local Similarity  100.0%;  Pred. No. 1.4;
  Matches  713;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60

Qy         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120
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Db         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120

Qy        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180
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Db        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180

Qy        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240
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Db        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240

Qy        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300
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Qy        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360
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Db        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360

Qy        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420

Qy        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480
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Db        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480

Qy        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540
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Db        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540

Qy        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600

Qy        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660
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Db        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660

Qy        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
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Db        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
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RESULT 204
ADE88784
ID   ADE88784 standard; cDNA; 713 BP.
XX
AC   ADE88784;
XX
DT   29-JAN-2004  (first entry)
XX
DE   Human PRO polynucleotide #237.
XX
KW   Human; gene; ss; PRO; secreted polypeptide; transmembrane polypeptide;
KW   tumour necrosis factor-alpha; TNF-alpha; chondrocyte cell; tumour;
KW   cancer; adrenal; lung; colon; breast; prostate; rectum; kidney; cervix;
KW   liver; microvascular endothelial cell; glucose; FFA;
KW   skeletal muscle cell; adipocyte cell; pericyte cell;
KW   inner ear utricular supporting cell; T-lymphocyte cell;
KW   endothelial cell tube formation; bone disorder; cartilage disorder;
KW   sports injury; proteoglycan; articular cartilage defect; osteoarthritis;
KW   rheumatoid arthritis; haemoglobin-associated disorder thalassaemia;
KW   immune system cell infiltration.
XX
OS   Homo sapiens.
XX
PN   US2003199054-A1.
XX
PD   23-OCT-2003.
XX
PF   12-APR-2002; 2002US-00121054.
XX
PR   31-MAR-1997;   97WO-US005230.
PR   12-JUN-1998;   98WO-US012456.
PR   14-JUL-1998;   98WO-US014552.
PR   28-AUG-1998;   98WO-US017888.
PR   10-SEP-1998;   98WO-US018824.
PR   14-SEP-1998;   98WO-US019093.
PR   14-SEP-1998;   98WO-US019094.
PR   14-SEP-1998;   98WO-US019177.
PR   16-SEP-1998;   98WO-US019330.
PR   17-SEP-1998;   98WO-US019437.
PR   07-OCT-1998;   98WO-US021141.
PR   29-OCT-1998;   98WO-US022991.
PR   29-OCT-1998;   98WO-US022992.
PR   20-NOV-1998;   98WO-US024855.
PR   01-DEC-1998;   98WO-US025108.
PR   05-JAN-1999;   99WO-US000106.
PR   08-MAR-1999;   99WO-US005028.
PR   10-MAR-1999;   99WO-US005190.
PR   10-MAR-1999; 2000WO-US006319.
PR   20-APR-1999;   99WO-US008615.
PR   14-MAY-1999;   99WO-US010733.
PR   02-JUN-1999;   99WO-US012252.
PR   01-SEP-1999;   99WO-US020111.
PR   08-SEP-1999;   99WO-US020594.
PR   13-SEP-1999;   99WO-US020944.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021547.
PR   05-OCT-1999;   99WO-US023089.
PR   29-NOV-1999;   99WO-US028214.
PR   30-NOV-1999;   99WO-US028313.
PR   30-NOV-1999;   99WO-US028409.
PR   01-DEC-1999;   99WO-US028301.
PR   01-DEC-1999;   99WO-US028634.
PR   02-DEC-1999;   99WO-US028551.
PR   02-DEC-1999;   99WO-US028564.
PR   02-DEC-1999;   99WO-US028565.
PR   16-DEC-1999;   99WO-US030095.
PR   20-DEC-1999;   99WO-US030911.
PR   20-DEC-1999;   99WO-US030999.
PR   22-DEC-1999;   99WO-US030720.
PR   30-DEC-1999;   99WO-US031243.
PR   30-DEC-1999;   99WO-US031274.
PR   05-JAN-2000; 2000WO-US000219.
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PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
PR 14-MAR-2001; 2001US-00808689.
PR 22-MAR-2001; 2001US-00816744.
PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
PR 25-MAY-2001; 2001US-00866034.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001US-00872035.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 21-JUN-2001; 2001US-00887879.
PR 22-JUN-2001; 2001WO-US020116.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 06-AUG-2001; 2001US-00924419.
PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2004-041356/04.
DR P-PSDB; ADE88785.
XX
PT Novel secreted and transmembrane polypeptides, PRO useful for treating
PT bone disorders, arthritis, heart attack, injuries, tumors, and
PT stimulating release of TNF-alpha from human blood.
XX
PS Claim 2; SEQ ID NO 473; 638pp; English.
XX
CC The invention relates to isolated human PRO polypeptides (secreted and
CC transmembrane polypeptides) and the polynucleotides encoding them. The
CC invention also relates to an antibody which specifically binds to a PRO
CC polypeptide, a method for stimulating the release of tumour necrosis
CC factor-alpha (TNF-alpha) from human blood, a method for stimulating the
CC proliferation or differentiation of chondrocyte cells and a method for
CC detecting the presence of a tumour in a mammal (e.g. adrenal, lung,
CC colon, breast, prostate, rectal, kidney, cervical and liver tumours). The
CC polynucleotides are useful in molecular biology, including uses as
CC hybridisation probes, in chromosome and gene mapping, in generating
CC antisense RNA and DNA and in gene therapy. The polynucleotides may also
CC be used in preparing PRO polypeptides by recombinant techniques and in
CC generating either transgenic animals or knock-out animals which are
CC useful in the development and screening of therapeutically useful
CC reagents. The PRO polypeptides or antibodies are used in preparing a
CC medicament for treating a condition responsive to the polypeptides or
CC antibodies, such as tumours, for stimulating and inhibiting proliferation
CC of human microvascular endothelial cells, for modulating the uptake of
CC glucose or FFA by skeletal muscle cells or adipocyte cells, for
CC stimulating differentiation of adipocyte cells, for stimulating
CC proliferation of or gene expression in pericyte cells, for stimulating
CC the proliferation of inner ear utricular supporting cells or T-lymphocyte
CC cells, for inducing endothelial cell tube formation and for treating
CC various bone and/or cartilage disorders such as sports injuries and
CC arthritis. PRO polypeptides which stimulate the release of proteoglycans
CC from cartilage are useful for treating sports-related joint problems,
CC articular cartilage defects, osteoarthritis and rheumatoid arthritis. PRO
CC polypeptides are also useful for treating various mammalian haemoglobin-
CC associated disorders such as various thalassaemias and conditions which
CC may benefit from enhanced local immune system cell infiltration. This
CC sequence represents a human PRO polynucleotide of the invention. Note:
CC The sequence data for this patent is also available in electronic format
CC from USPTO at seqdata.uspto.gov/sequence.html.
XX
SQ Sequence 713 BP; 262 A; 105 C; 134 G; 212 T; 0 U; 0 Other;

Query Match 100.0%; Score 713; DB 1; Length 713;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 713; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60
Db 1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60

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Qy 121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180
Db 121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180

Qy 181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240
Db 181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240

Qy 241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300
Db 241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300

Qy 301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360
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Qy 361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420
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Qy 421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480
Db 421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480

Qy 481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540

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Db        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540

Qy        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600
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Qy        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
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Db        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
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RESULT 205
AAK81282/c
ID AAK81282 standard; DNA; 5709 BP.
XX
AC AAK81282;
XX
DT 07-NOV-2001 (first entry)
XX
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:36094.
XX
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW cytostatic; gene therapy; vaccine; metastasis; ds.
XX
OS Homo sapiens.
XX
PN WO200157182-A2.
XX
PD 09-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001354.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
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PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
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PR   11-DEC-2000; 2000US-0254097P.
PR   05-JAN-2001; 2001US-0259678P.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Rosen CA,  Barash SC,  Ruben SM;
XX
DR   WPI; 2001-483426/52.
XX
PT   Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT   useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
PS   Disclosure; SEQ ID NO 36094; 3071pp + Sequence Listing; English.
XX
CC   AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC   amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
CC   activity, and can be used in gene therapy and vaccine production. (I)
CC   proteins and polynucleotides may be used in the prevention, diagnosis and
CC   treatment of diseases associated with inappropriate (I) expression. For
CC   example, they may be used to treat disorders associated with decreased
CC   expression by rectifying mutations or deletions in a patient's genome
CC   that affect the activity of (I) by expressing inactive proteins or to
CC   supplement the patients own production of (I). Additionally, (I)
CC   polynucleotides may be used to produce the secreted (I), by inserting the
CC   nucleic acids into a host cell and culturing the cell to express the
CC   protein. (I) proteins and polynucleotides may be used to prevent,
CC   diagnose and treat immune/haematopoietic-related diseases, especially
CC   cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC   to AAK87694 represent human immune/haematopoietic antigen genomic
CC   sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC   represent sequences used in the exemplification of the present invention
XX
SQ   Sequence 5709 BP; 1849 A; 1109 C; 988 G; 1763 T; 0 U; 0 Other;

  Query Match             99.0%;  Score 705.6;  DB 1;  Length 5709;
  Best Local Similarity   99.4%;  Pred. No. 0.19;
  Matches  708;  Conservative    0;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2310 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 2251

Qy         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2250 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTCTGTCACTATTATTATT 2191

Qy        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2190 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 2131

Qy        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2130 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 2071

Qy        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2070 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 2011

Qy        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       2010 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 1951

Qy        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1950 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 1891

Qy        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1890 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 1831

Qy        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1830 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 1771

Qy        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1770 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 1711

Qy        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1710 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 1651

Qy        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAA 712
              ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1650 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGAATAAGGAA 1599


RESULT 206
AAC91481
ID   AAC91481 standard; cDNA; 712 BP.
XX
AC   AAC91481;
XX
DT   21-MAR-2001  (first entry)
XX
DE   Human PRO1159 cDNA.
XX
KW   Human; PRO; antiinflammatory; dermatological; antiarthritic;
KW   antirheumatic; cardiant; antianaemic; immunosuppressive; antithyroid;
KW   antidiabetic; nootropic; neuroprotective; hepatotropic; virucide;
KW   antiallergic; antiasthmatic; immune related disorder;
KW   hepatobiliary disease; autoimmune disease; allergy; ss.
XX
OS   Homo sapiens.
XX
PN   WO200073452-A2.
XX
PD   07-DEC-2000.
XX
PF   02-JUN-2000; 2000WO-US015264.
XX
PR   02-JUN-1999;   99WO-US012252.
PR   20-JUL-1999;   99US-0144732P.
PR   20-JUL-1999;   99US-0144758P.
PR   28-JUL-1999;   99US-0146222P.
PR   01-SEP-1999;   99WO-US020111.
PR   15-SEP-1999;   99WO-US021090.
PR   15-SEP-1999;   99WO-US021547.
PR   29-OCT-1999;   99US-0162506P.
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PR   01-DEC-1999;   99WO-US028634.
PR   02-DEC-1999;   99WO-US028551.
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PR   02-DEC-1999;   99WO-US028565.
PR   09-DEC-1999;   99US-0170262P.
PR   20-DEC-1999;   99WO-US030911.
PR   05-JAN-2000; 2000WO-US000219.
PR   06-JAN-2000; 2000WO-US000376.
PR   11-FEB-2000; 2000WO-US003565.
PR   18-FEB-2000; 2000WO-US004341.
PR   18-FEB-2000; 2000WO-US004342.
PR   22-FEB-2000; 2000WO-US004414.
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PR   24-FEB-2000; 2000WO-US005004.
PR   01-MAR-2000; 2000WO-US005601.
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PR   20-MAR-2000; 2000WO-US007377.
PR   21-MAR-2000; 2000WO-US007532.
PR   30-MAR-2000; 2000WO-US008439.
PR   17-MAY-2000; 2000WO-US013705.
PR   22-MAY-2000; 2000WO-US014042.
XX
PA   (GETH ) GENENTECH INC.
XX
PI   Ashkenazi AJ,  Baker KP,  Chan B,  Goddard A,  Godowski PJ;
PI   Gurney AL,  Hebert C,  Henzel W,  Kabakoff RC,  Shelton DL,  Tumas D;
PI   Watanabe CK,  Wood WI;
XX
DR   WPI; 2001-025253/03.
DR   P-PSDB; AAB50922.
XX
PT   Thirty three nucleic acids encoding PRO polypeptides which are useful in
PT   the diagnosis and treatment of immune related disorders, e.g. systemic
PT   lupus erythematosis, rheumatoid arthritis, osteoarthritis, thyroiditis
PT   and diabetes mellitus.
XX
PS   Claim 48; Fig 41; 218pp; English.
XX
CC   The present sequence is one of thirty three nucleic acids encoding PRO
CC   polypeptides. The PRO polypeptides, anti-PRO antibodies, agonists and
CC   antagonists are useful for treating and diagnosing immune related
CC   disorders such as systemic lupus erythematosus, rheumatoid arthritis,
CC   osteoarthritis, juvenile chronic arthritis, spondyloarthropathies,
CC   systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's
CC   syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
CC   anaemia, autoimmune thrombocytopaenia, thyroiditis, diabetes mellitus,
CC   immune-mediated renal disease, demyelinating diseases of the central and
CC   peripheral nervous systems (such as multiple sclerosis, idiopathic
CC   demyelinating polyneuropathy or Guillain-Barre syndrome, and chronic
CC   inflammatory demyelinating polyneuropathy), hepatobiliary diseases (such
CC   as infectious, autoimmune chronic active hepatitis, primary biliary
CC   cirrhosis, granulomatous hepatitis and sclerosing cholangitis),
CC   inflammatory bowel disease, gluten-sensitive enteropathy and Whipple's
CC   disease, autoimmune or immune-mediated skin diseases (such as bullous
CC   skin diseases, erythema multiforme, contact dermatitis, psoriasis),
CC   allergic diseases such as asthma, allergic rhinitis, atopic dermatitis,
CC   food hypersensitivity and urticaria), immunological diseases of the lung
CC   (such as eosinophilic pneumonias, idiopathic pulmonary fibrosis and
CC   hypersensitivity pneumonitis), transplantation associated diseases
CC   including graft rejection and graft-versus-host diseases
XX
SQ   Sequence 712 BP; 262 A; 105 C; 134 G; 211 T; 0 U; 0 Other;

  Query Match             98.4%;  Score 701.5;  DB 1;  Length 712;
  Best Local Similarity   99.9%;  Pred. No. 1.6;
  Matches  712;  Conservative    0;  Mismatches    0;  Indels    1;  Gaps    1;

Qy          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60
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Db          1 AATATATCATCTATTTATCATTAATCAATAATGTATTCTTTTATTCCAATAACATTTGGG 60

Qy         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTTCTGTCACTATTATTATT 120
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Db         61 TTTTGGGATTTTAATTTTCAAACACAGCAGAATGACATTTTTTTCTGTCACTATTATTATT 120

Qy        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 GTTGGTATGTGAAGCTATTTGGAGATCCAATTCAGGAAGCAACACATTGGAGAATGGCTA 180

Qy        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 CTTTCTATCAAGAAATAAAGAGAACCACAGTCAACCCACACAATCATCTTTAGAAGACAG 240

Qy        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TGTGACTCCTACCAAAGCTGTCAAAACCACAGGCAAGGGCATAGTTAAAGGACGGAATCT 300

Qy        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 TGACTCAAGAGGGTTAATTCTTGGTGCTGAAGCCTGGGGCAGGGGTGTAAAGAAAAACAC 360

Qy        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 TTAGATTCAATGATTGTAAATTTAAGGCAAATACACATATTAGTATTACCTTAGTGTAAT 420

Qy        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 GTATCCCTGTCATATATACAATAAGGTGAAATTATAAGTACCCTATGCAGTTGGCTGGAC 480

Qy        481 AGTTCTAAATTGGACTTTATTAATTTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 540
              |||||||||||||||||||||| ||||||||||||||||||||||||||||||||||||
Db        481 AGTTCTAAATTGGACTTTATTAA-TTTTAAAATCAGTAACTGATTTATCACTGGCTATGT 539

Qy        541 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 600
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        540 GCTTAGATCTACAGGAGATCATATAATTTGATACAAATAAAAGAAAAGTGTTCTCTCCCC 599

Qy        601 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 660
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        600 TTACAGAATTGACATTTTAAATGCGATACAGTTAGAATAGGAAATATGACATTAGAAAGG 659

Qy        661 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 713
              |||||||||||||||||||||||||||||||||||||||||||||||||||
Db        660 AAGAATGACAGGGAGAAAGGAAAGAAGGGAAAATGTTGCCAAGGAAAAAAAAA 712

RESULT 207
AAK81284/c
ID   AAK81284 standard; DNA; 336 BP.
XX
AC   AAK81284;
XX
DT   07-NOV-2001  (first entry)
XX
DE   Human immune/haematopoietic antigen genomic sequence SEQ ID NO:36096.
XX
KW   Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW   cytostatic; gene therapy; vaccine; metastasis; ds.
XX
OS   Homo sapiens.
XX
PN   WO200157182-A2.
XX
PD   09-AUG-2001.
XX
PF   17-JAN-2001; 2001WO-US001354.
XX
PR   31-JAN-2000; 2000US-0179065P.
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PR 14-SEP-2000; 2000US-0232401P.
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PR 25-SEP-2000; 2000US-0234997P.
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PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
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PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
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PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
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PR 20-OCT-2000; 2000US-0241826P.
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PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
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PR 08-NOV-2000; 2000US-0246527P.
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PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
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PR 08-NOV-2000; 2000US-0246613P.
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PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
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PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
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PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Barash SC, Ruben SM;
XX
DR WPI; 2001-483426/52.
XX
PT Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
PS Disclosure; SEQ ID NO 36096; 3071pp + Sequence Listing; English.
XX
CC AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to

CC supplement the patients own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/haematopoietic-related diseases, especially
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC to AAK87694 represent human immune/haematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC represent sequences used in the exemplification of the present invention
XX
SQ Sequence 336 BP; 98 A; 66 C; 49 G; 123 T; 0 U; 0 Other;

Query Match 46.7%; Score 332.8; DB 1; Length 336;
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GenCore version 5.1.6

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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	2	75.2	10.5	528	3	US-08-772-440-7	Sequence 7, Appli
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	4	45.2	6.3	832	4	US-09-621-976-2813	Sequence 2813, Ap
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	6	40.4	5.7	5847	4	US-09-920-672-10	Sequence 10, Appl
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